

Permit Fact Sheet

General Information

Permit Number:	WI-0026620-07-1
Permittee Name:	Seneca Foods Corporation
Address:	PO Box 237
City/State/Zip:	Cambria WI 53923
Discharge Location:	Surface Waters and Groundwaters of the Upper Wisconsin River
Receiving Water:	North Branch of Duck Creek
StreamFlow (Q _{7,10}):	0.02 cfs
Stream Classification:	Warmwater sport fish community

Facility Description

The permit was modified to change spray irrigation fields from inactive to active for sample point numbers 036, 037, 038, 039, & 042. Spray fields 019 & 020 sample point numbered 040, 041 were removed from the permit. Groundwater monitoring was revised to delete wells 836, 837, 838 and 839 that were abandoned and added a replacement for the background well numbered 843 (HMW-2R).

Seneca Foods Cambria Plant West is a seasonal canning facility. The facility cans 100K raw tons of various types of vegetables for human consumption. The annual processing takes place during the months of June through October and consist of about 103 days. Cleaned and process vegetables are canned and thermal processed by cookers and finished canned products are shipped off site by truck. Process wastewater, cooling waters and vegetable by products are generated at the plant as a result of the vegetable canning process

Sample Point Designation		
Sample Point Number	Discharge Flow, Units, and Averaging Period	Sample Point Location, WasteType/sample Contents and Treatment Description (as applicable)
002		Can Cooling Water from the North Lagoon discharged to an unnamed tributary to the North Branch of Duck Creek.
010		The permittee's vegetable by-product solids are hauled to another facility. The permittee is required to submit form 3400-52 'Other Methods of Disposal or Distribution Report' by January 31 following each year the vegetable by-product solids are hauled off site.
014		Sludge composed of settlings from Industrial process wastewater. This includes sludge from the wastewater lagoon and the wastewater holding tank.

Sample Point Designation		
Sample Point Number	Discharge Flow, Units, and Averaging Period	Sample Point Location, WasteType/sample Contents and Treatment Description (as applicable)
023		Site 003. Fixed system 500 ft west of the can cooling water lagoon. 6 acres. Can Cooling Water Only.
024		Site 004. Immediately south of can cooling water lagoon. 9 acres. Rarely used as a backup irrigation site.
025		Site 005. Center pivot spray irrigation located 1000 ft south of Outfall 023, adjacent to Morgan Road. 32 acres.
026	Sample point removed – fixed SI no longer in use.	Site 006. Fixed set spray irrigation located around the perimeter of Outfall 025. 13.8 acres.
027		Site 007. Center pivot spray irrigation located adjacent to Morgan Road, 2000 ft west of the Prairie Road intersection. 74 acres.
028		Site 008. Center pivot spray irrigation located 500 ft northwest of Outfall 027. 6 acres.
029		Site 009. Fixed set spray irrigation. Narrow set running north to south, just north of Outfall 030. 2.45 acres.
030		Site 010. Fixed set spray irrigation located along the northeast perimeter of Outfall 027. 3.12 acres.
031		Site 011. Fixed set spray irrigation located along the southeast perimeter of Outfall 027, adjacent to Morgan Road. 5 acres.
032		Site 012. Fixed set spray irrigation located along the southwest perimeter of Outfall 027, adjacent to Morgan Road. 5.18 acres.
033		Site 013A. Fixed set spray irrigation located along the northwest perimeter of Outfall 027, between Outfall 027 and Outfall 028. 3.25 acres.
034		Site 013B. Fixed set spray irrigation located along the northern perimeter of Outfall 028. 1 acre.
035		Site 014. Fixed set spray irrigation located immediately east of Outfall 028. 7.9 acres.
036	Activated sample point	Site 015 is North of outfall 025 and the size is 29.2 acres.
037	Activated sample point	Site 016. Hahn field, northwest corner. Size 31.5 acres.
038	Activated sample point	Site 017. Hahn field, southwest corner. Size 20.3 acres.
039	Activated sample point	Site 018. Hahn field, center pivot. Size 97.2 acres.
040	Removed sample point	Site 019
041	Removed sample point	Site 020
042	Activated sample point	Site 006 Pivot spray irrigation located beside the perimeter of Outfall 025. 9 ac.

Sample Point Designation		
Sample Point Number	Discharge Flow, Units, and Averaging Period	Sample Point Location, WasteType/sample Contents and Treatment Description (as applicable)
103		Characterization of can cooling water directed to any spray irrigation system.
107		Characterization of process wastewater directed to any spray irrigation system.
108		Characterization of combined flow of can cooling water and process wastewater directed to any spray irrigation system.

Sample Point Designation For Groundwater Monitoring Systems			
System	Sample Pt Number	Well Name	Comments
Lagoon - north of plant	824	824 (WC-1)	
	825	825 (WC-1P)	
	826	826 (WC-2)	
	827	827 (WC-3)	
	828	828 (WC-4)	
	829	829 (WC-5)	
	830	830 (WC-6)	
	831	831 (WC-7)	
	832	832 (WC-8R)	
	835	835 (HMW-1)	
	836	836 (HMW-2)	Well abandoned.
	837	837 (HMW-3)	Well abandoned.
	838	838 (HMW-4)	Well abandoned.
	839	839 (HMW-5)	Well abandoned.
	840	840 (HMW-6)	
	841	841 (HMW-7)	
	842	842 (HMW-8)	
	843	843 (HMW-2R)	New well intended to replace abandoned background well.
Site 004	802	802 (MW-2)	

Sample Point Designation For Groundwater Monitoring Systems			
System	Sample Pt Number	Well Name	Comments
	805	805 (MW-5)	
	817	817 (MW-17)	
Sites 005/006	815	815 (MW-15)	
	834	834 (MW-16R)	
Sites 007 - 014	821	821 (A-1)	
	823	823 (A-3)	
	833	833 (A-2R)	

1 Inplant - Proposed Monitoring and Limitations

Sample Point Number: 103- Can Cooling Water

Changes from Previous Permit:

[No changes for this section in permit modification.](#)

Sample Point Number: 107- Process Wastewater

Changes from Previous Permit:

[No changes for this section in permit modification](#)

Sample Point Number: 108- Cooling & Process Mixture

Changes from Previous Permit:

[No changes for this section in permit modification](#)

2 Surface Water - Proposed Monitoring and Limitations

Sample Point Number: 002- Can Cooling Water

Changes from Previous Permit

[No changes for this section in permit modification](#)

3 Land Treatment – Proposed Monitoring and Limitations

Sample Point Number: 023- Spray Site 003

Changes from Previous Permit:

No changes for this section in permit modification

Sample Point Number: 024- Spray Site 004; 025- Spray Site 005; 027- Spray Site 007; 028- Spray Site 008; 029- Spray Site 009; 030- Spray Site 010; 031- Spray Site 011; 032- Spray Site 012; 033- Spray Site 013A; 034- Spray Site 013B; 035- Spray Site 014; 036- Spray Site 015 ; 037- Spray Site 016; 038- Spray Site 017; 039- Spray Site 018, and 042- Site 006 - Pivot

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Flow Rate		gpd	Daily	Total Daily	
Hydraulic Application Rate	Monthly Avg	10,000 gal/ac/day	Monthly	Calculated	
Chloride		lbs/ac/yr	Annual	Total Annual	
Nitrogen, Max Applied On Any Zone	Annual Total	400 lbs/ac/yr	Annual	Total Annual	

Changes from Previous Permit:

Sample point numbers 026, 040 and 041 were removed from the permit. Sample point numbers 036, 037, 038, 039, & 042 were activated in the permit and the sample descriptions changed to reflect this.

Explanation of Limits and Monitoring Requirements

Sample point 026 is removed due to the conversion of the SI site 006 from a fixed spray head to a pivot system over a smaller area now created as sample point 042. Spray sites 019 and 020, sample points 040 and 041, are not going to be used so the sample points were removed from the permit.

The permittee developed available spray sites for use in the 2021 packing season. Sample points for these sites were included in the current permit but marked as inactive. The permit modification activated these sample points and removed the inactive label from the sample descriptions in the permit.

4 Groundwater – Proposed Monitoring and Limitations

4.1 Groundwater Monitoring System for New SI sites

Location of Monitoring system: Hahn field

Wells to be Monitored: 835 (HMW-1), 840 (HMW-6), 841 (HMW-7), 842 (HMW-8), 843 (HMW-2R)

Well Used To Calculate PALs:

Enforcement Standard Wells:

Parameter	Units	Preventative Action Limit	Enforcement Standard	Frequency
Groundwater Elevation	feet MSL	*****	N/A	Quarterly
Depth To Groundwater	feet	*****	N/A	Quarterly
Chloride Dissolved	mg/L	*****	N/A	Quarterly
Nitrogen, Ammonia Dissolved	mg/L	*****	N/A	Quarterly
Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	*****	N/A	Quarterly
Nitrogen, Organic Dissolved	mg/L	*****	N/A	Quarterly
pH Field	su	*****	N/A	Quarterly
COD, Filtered	mg/L	*****	N/A	Quarterly
Solids, Total Dissolved	mg/L	*****	N/A	Quarterly

Changes from Previous Permit:

Wells 836, 837, 838 & 839 were removed from the permit. The original background well (836) was replaced with well number 843 (HMW-2R).

Explanation of Limits and Monitoring Requirements

The facility will not be using spray sites 019 and 020 so the wells surrounding these sites were abandoned.

The background well 836 was replaced because it didn't contain groundwater. A new background well 843, was installed.

4.2 Groundwater Monitoring System for Sites 005/006

Location of Monitoring system: Spray irrigation sites 005 & 006

Wells to be Monitored: 815 (MW-15), 834 (MW-16R)

Changes from Previous Permit:

No changes for this section in permit modification

4.3 Groundwater Monitoring System for Sites 007 - 014

Location of Monitoring system: Spray irrigation site 007 is about 1.4 miles West of the Cambria plant. Sites 008 - 014 are located around the periphery of site 007.

Wells to be Monitored: 821 (A-1), 823 (A-3), 833 (A-2R)

Changes from Previous Permit:

No changes for this section in permit modification

4.4 Groundwater Monitoring System for Lagoon - north of plant

Location of Monitoring system: North of Plant

Wells to be Monitored: 824 (WC-1), 825 (WC-1P), 826 (WC-2), 827 (WC-3), 828 (WC-4), 829 (WC-5), 830 (WC-6), 831 (WC-7), 832 (WC-8R)

Changes from Previous Permit:

No changes for this section in permit modification

4.5 Groundwater Monitoring System for Site 004

Location of Monitoring system: Spray irrigation

Wells to be Monitored: 802 (MW-2), 805 (MW-5), 817 (MW-17)

Changes from Previous Permit:

No changes for this section in permit modification

5 Land Application - Sludge/By-Product Solids (industrial only)

Sample Point Number: 010- vegetable by-product solids

Changes from Previous Permit:

No changes for this section in permit modification

Sample Point Number: 014- Wastewater Settlings Sludge

Changes from Previous Permit:

No changes for this section in permit modification

6 Compliance Schedules

6.1 Water Quality Based Effluent Limits (WQBELs) for Total Phosphorus

Required Action	Due Date
Final Plans and Specifications: Unless the permit has been modified, revoked and reissued, or reissued to include Adaptive Management or Water Quality Trading measures or to include a revised schedule based on factors in s. NR 217.17, Wis. Adm. Code, the permittee shall submit final construction plans to the Department for approval pursuant to s. 281.41, Stats., specifying treatment plant upgrades that must be constructed to achieve compliance with final phosphorus WQBELs, and a schedule for completing construction of the upgrades by the complete construction date specified below. (Note: Permit modification, revocation and reissuance, and reissuance are subject to s. 283.53(2), Stats.) Note: See 'Alternative Approaches to Phosphorus WQBEL Compliance' in the Surface Water section of this permit.	12/31/2019
Treatment Plant Upgrade to Meet WQBELs: The permittee shall initiate construction of the upgrades. The permittee shall obtain approval of the final construction plans and schedule from the Department pursuant to s. 281.41, Stats. Upon approval of the final construction plans and schedule by the Department pursuant to s. 281.41, Stats., the permittee shall construct the treatment plant upgrades in accordance with the approved plans and specifications. Note: See 'Alternative Approaches to Phosphorus WQBEL Compliance' in the Surface Water section of this permit.	03/31/2020

Construction Upgrade Progress Report #1: The permittee shall submit a progress report on construction upgrades. Note: See 'Alternative Approaches to Phosphorus WQBEL Compliance' in the Surface Water section of this permit.	03/31/2021
Construction Upgrade Progress Report #2: The permittee shall submit a progress report on construction upgrades. Note: See 'Alternative Approaches to Phosphorus WQBEL Compliance' in the Surface Water section of this permit.	03/31/2022
Complete Construction: The permittee shall complete construction of wastewater treatment system upgrades. Note: See 'Alternative Approaches to Phosphorus WQBEL Compliance' in the Surface Water section of this permit.	12/31/2022
Achieve Compliance: The permittee shall achieve compliance with final phosphorus WQBELs. Note: See 'Alternative Approaches to Phosphorus WQBEL Compliance' in the Surface Water section of this permit.	01/01/2023

Explanation of Compliance Schedules

[No changes for this section in permit modification](#)

Other Comments:

[Enter Comments](#)

Attachments:

Proposed Expiration Date:

12/31/2023

Justification Of Any Waivers From Permit Application Requirements

none

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Date: [April 8, 2021](#)

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